South Carolina Mathematics   Grade 5			Pushing the Ei	nvelope
South Carolina Mathematics Grade 5 Activity/Lesson State Standards Apply procedures to determine the amount of elapsed time in hours, minutes, and seconds within a 24-hour period. Apply formulas to determine the perimeters and areas of triangles, rectangles, and parallelograms.  Through the process standards students will demonstrate an understanding of measurable attributes of objects, the units and systems of measurement, and apply tools and formulas to determine measurements. Papply strategies and formulas to determine the volume of rectangular prisms.  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centilitier; and 10 milligrams = 1 centigrams.  Chemistry (pgs. 25-41)  SC MA.5.5-5.4  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.6  MA.5.5-5.7				
Grade 5 ActivityLesson  Filstory of Aviation Propulsion (pgs. 5-9)  Types of Engines ( pgs. 11-23)  SC  MA.5.5-5.4  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.6  MA.5.5-5.6  MA.5.5-5.6  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.8  MA.5.5-5.8  MA.5.5-5.8  MA.5.5-5.8  MA.5.5-5.8  MA.5.5-5.8  MA.5.5-5.7  MA.5.5-5.8  MA.5.5-5.7  MA.5.5-5.8  MA.5.5-5.7  MA.5.5-5.7			Curriculum Sta	andards
Activity/Lesson  History of Aviation Propulsion (pgs. 5-9)  SC  MA.5.5-6.6  MA.5.5-6.6  MA.5.5-6.6  MA.5.5-6.6  MA.5.5-6.6  MA.5.5-6.7  Apply procedures to determine the amount of elapsed time in hours, minutes, and seconds within a 24-hour period.  Apply formulas to determine the perimeters and areas of triangles, rectangles, and parallelograms.  Types of Engines ( pgs. 11-23)  SC  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.5  MA.5.5-5.6  MA.5.5-5.6  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.8  Chemistry (pgs. 25-41)  SC  MA.5.5-5.7		ematics		
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Chemistry (pgs. 25- 41)  SC  MA.5.5-5.5  formulas to determine the volume of rectangular prisms.  Through the process standards students will demonstrate an understanding of measurable attributes of objects, the units and systems of measurement, and apply tools and formulas to determine measurements. Understand the relationship between the Celsius and Fahrenheit  SC  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.7  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters; 10 millimeters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				
41) SC MA.5.5-5.5 prisms.  Through the process standards students will demonstrate an understanding of measurable attributes of objects, the units and systems of measurement, and apply tools and formulas to determine measurements. Understand the relationship between the Celsius and Fahrenheit  SC MA.5.5-5.7 temperature scales.  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100	Chemistry (pgs. 25-			1
demonstrate an understanding of measurable attributes of objects, the units and systems of measurement, and apply tools and formulas to determine measurements. Understand the relationship between the Celsius and Fahrenheit temperature scales.    Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100	41)	SC	MA.5.5-5.5	
attributes of objects, the units and systems of measurement, and apply tools and formulas to determine measurements. Understand the relationship between the Celsius and Fahrenheit temperature scales.    Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				Through the process standards students will
measurement, and apply tools and formulas to determine measurements. Understand the relationship between the Celsius and Fahrenheit temperature scales.    Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				demonstrate an understanding of measurable
apply tools and formulas to determine measurements. Understand the relationship between the Celsius and Fahrenheit  SC MA.5.5-5.7 temperature scales.  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				1
measurements. Understand the relationship between the Celsius and Fahrenheit  SC  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.7  MA.5.5-5.7  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				·
Chemistry (pgs. 25- 41)  SC  MA.5.5-5.7  between the Celsius and Fahrenheit temperature scales.  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				1 ' ' '
41) SC MA.5.5-5.7 temperature scales.  Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100	0			•
Recall equivalencies associated with length, liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100		00	NAA 5 5 5 7	
liquid volume, and mass: 10 millimeters = 1 centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; Chemistry (pgs. 25- and 10 milligrams = 1 centigram, 100	41)	30	IVIA.5.5-5./	
centimeter, 100 centimeters = 1 meter, 1000 meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; Chemistry (pgs. 25- and 10 milligrams = 1 centigram, 100				
meters = 1 kilometer; 10 milliliters = 1 centiliter, 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; Chemistry (pgs. 25- and 10 milligrams = 1 centigram, 100				·
Chemistry (pgs. 25- 100 centiliters = 1 liter, 1000 liters = 1 kiloliter; and 10 milligrams = 1 centigram, 100				
Chemistry (pgs. 25- and 10 milligrams = 1 centigram, 100				
	Chemistry (pgs 25-			
		sc	MA.5.5-5.8	

Physics and Math			Apply formulas to determine the perimeters and areas of triangles, rectangles, and
(pgs. 43-63)	sc	MA.5.5-5.4	parallelograms.
			Through the process standards students will demonstrate an understanding of measurable attributes of objects, the units and systems of measurement, and apply tools and formulas to determine
Physics and Math (pgs. 43-63)	SC	MA.5.5-5.5	measurements. Apply strategies and formulas to determine the volume of rectangular prisms.
Rocket Activity (pgs. 69-75)	SC	MA.5.5-5.4	Apply formulas to determine the perimeters and areas of triangles, rectangles, and parallelograms.
Rocket Activity (pgs. 69-75)	SC	MA.5.5-5.5	Through the process standards students will demonstrate an understanding of measurable attributes of objects, the units and systems of measurement, and apply tools and formulas to determine measurements. Apply strategies and formulas to determine the volume of rectangular prisms.
		Pushing the E	
		2007 Mathen	
		Curriculum Sta	andards
South Carolina Math	nematics		
Grade 6			
Activity/Lesson	State	Standards	
D			Use correct and clearly written or spoken words,
Physics and Math	00	NAA C C 4 C	variables, and notations to communicate about
(pgs. 43-63)	SC	MA.6.6-1.6	significant mathematical tasks.
Physics and Math	sc	MAGGGG	Understand the relationship between ratio/rate
(pgs. 43-63)	SC	MA.6.6-2.6	and multiplication/division.
Physics and Math			Use inverse operations to solve one-step equations that have whole-number solutions and
(pgs. 43-63)	sc	MA.6.6-3.5	variables with whole-number coefficients.
(pgs. 45-05)	30	IVIA.0.0-3.3	variables with whole-number coefficients.
		Pushing the E	nvolono
		2007 Mathen	•
		Curriculum Sta	
South Carolina Math	nomatics	- Curriculum Sta	anuarus
Grade 7	ionialios		
Activity/Lesson	State	Standards	
•	Juice	Standards	Recall equivalencies associated with length, mass and weight, and liquid volume: 1 square yard = 9 square feet, 1 cubic meter = 1 million cubic centimeters, 1 kilometer = 5/8 mile, 1 inch
Types of Engines (			= 2.54 centimeters; 1 kilogram = 2.2 pounds;
pgs. 11-23)	SC	MA.7.7-5.4	and 1.06 quarts = 1 liter.

Chemistry (pgs. 25-41)  Physics and Math (pgs. 43-63)  Physics and Math (pgs. 43-63)  Physics and Math	SC SC	MA.7.7-5.4 MA.7.7-2.5 MA.7.7-3.2	Recall equivalencies associated with length, mass and weight, and liquid volume: 1 square yard = 9 square feet, 1 cubic meter = 1 million cubic centimeters, 1 kilometer = 5/8 mile, 1 inch = 2.54 centimeters; 1 kilogram = 2.2 pounds; and 1.06 quarts = 1 liter.  Apply ratios, rates, and proportions to discounts, taxes, tips, interest, unit costs, and similar shapes.  Analyze tables and graphs to describe the rate of change between and among quantities.  Through the process standards students will demonstrate an understanding of proportional relationships. Understand slope as a constant
(pgs. 43-63)	SC	MA.7.7-3.3	rate of change.
,			9
		Pushing the En	
		2007 Mathematiculum Star	
South Carolina Math	ematics	- Curriculum Star	Iuaius
Grade 8			
Activity/Lesson	State	Standards	
- 10.11.1 <b>.J</b> / =000011			Apply strategies and formulas to determine the
Types of Engines (			volume of the three-dimensional shapes cone
pgs. 11-23)	SC	MA.8.8-5.3	and sphere.
Types of Engines (			Apply formulas to determine the exact (pi)
pgs. 11-23)	SC	MA.8.8-5.4	circumference and area of a circle.
Types of Engines (			Apply formulas to determine the perimeters and
pgs. 11-23)	SC	MA.8.8-5.5	areas of trapezoids.
			Explain the effect on the area of two-
Obamiator (nasa 05			dimensional shapes and on the volume of three-
Chemistry (pgs. 25-	sc	MA.8.8-5.2	dimensional shapes when one or more of the
41)	30	IVIA.0.0-3.2	dimensions are changed.  Apply strategies and formulas to determine the
Chemistry (pgs. 25-			volume of the three-dimensional shapes cone
41)	sc	MA.8.8-5.3	and sphere.
Chemistry (pgs. 25-			Apply formulas to determine the exact (pi)
41)	SC	MA.8.8-5.4	circumference and area of a circle.
Chemistry (pgs. 25-			Apply formulas to determine the perimeters and
41)	SC	MA.8.8-5.5	areas of trapezoids.
			Classify relationships between two variables in
Physics and Math			graphs, tables, and/or equations as either linear
(pgs. 43-63)	SC	MA.8.8-3.5	or nonlinear.
D			Apply strategies and formulas to determine the
Physics and Math	66	NAA 0 0 5 0	volume of the three-dimensional shapes cone
(pgs. 43-63)	SC	MA.8.8-5.3	and sphere.
Physics and Math	SC.	MA O O E A	Apply formulas to determine the exact (pi) circumference and area of a circle.
(pgs. 43-63) Physics and Math	SC	MA.8.8-5.4	Apply formulas to determine the perimeters and
(pgs. 43-63)	sc	MA.8.8-5.5	areas of trapezoids.
(pgs. 40-00)		IVIA.0.0-0.0	Apply strategies and formulas to determine the
Rocket Activity (pgs.	1	1	, we to the terminal and the terminal to the terminal the
ROCKEL ACTIVITY TOOS			volume of the three-dimensional shapes cone

Rocket Activity (pgs.			Apply formulas to determine the exact (pi)
69-75)	sc	MA.8.8-5.4	circumference and area of a circle.
Rocket Activity (pgs.		IVIA.U.U-J.4	Apply formulas to determine the perimeters and
69-75)	sc	MA.8.8-5.5	areas of trapezoids.
09-73)	30	IVIA.0.0-3.3	areas or trapezolus.
		Pushing the Env	elope
		2007 Mathemat	
		Curriculum Stand	
South Carolina Math	ematics		
Grades 9-12 (Elemer			
Activity/Lesson	State	Standards	
Types of Engines (			Carry out a procedure to evaluate an expression
pgs. 11-23)	SC	MA.9-12.EA-2.6	by substituting a value for the variable.
pger rr zey			ay concentrating at restrict the restriction
Chemistry (pgs. 25-			Carry out a procedure to evaluate an expression
41)	sc	MA.9-12.EA-2.6	by substituting a value for the variable.
,			.,
Physics and Math			Carry out a procedure to evaluate an expression
(pgs. 43-63)	sc	MA 9-12 FA-2 6	by substituting a value for the variable.
Physics and Math		1417 (10 12:12) ( 2:0	Use function notation to represent functional
(pgs. 43-63)	sc	MA.9-12.EA-3.2	•
Physics and Math		1417 (10 12.12) ( 0.12	Carry out a procedure to solve literal equations
(pgs. 43-63)	sc	MA.9-12.EA-3.7	
Physics and Math		1417 (10 12:12) ( 0:17	Carry out procedures to solve linear equations
(pgs. 43-63)	sc	MA.9-12.EA-4.7	for one variable algebraically.
(pgc. 10 00)		1417 (10 12:12) ( 1117	Carry out procedures to solve linear inequalities
Physics and Math			for one variable algebraically and then to graph
(pgs. 43-63)	sc	MA.9-12.EA-4.8	
Physics and Math		1417 (10 12:12) ( 1:10	Apply the concept of slope as a rate of change
(pgs. 43-63)	sc	MA.9-12.EA-5.7	to solve problems.
(pgc. 10 00)		1417 (10 12:12) ( 0:17	Analyze given information to write a linear
Physics and Math		MA.9-12.EA-	inequality in one variable that models a given
(pgs. 43-63)	sc	5.12	problem situation.
(Pgc. 10 00)			
		Pushing the Env	elope
		2007 Mathemat	•
		Curriculum Stand	dards
South Carolina Math	ematics		
Grades 9-12 (Interme	ediate Algebra)		
Activity/Lesson	State	Standards	
			Carry out a procedure to write a formula for the
			nth term of an arithmetic or geometric sequence
Types of Engines (			when given at least four consecutive terms of
pgs. 11-23)	SC	MA.9-12.IA-6.3	the sequence.
, ,			·
			Carry out a procedure to write a formula for the
Types of Engines (			nth term of an arithmetic or geometric sequence
pgs. 11-23)	sc	MA.9-12.IA-6.4	when given at least four terms of the sequence.
,			Carry out a procedure to write a formula for the
			nth term of an arithmetic or geometric sequence
Chemistry (pgs. 25-			when given at least four consecutive terms of
41)	sc	MA.9-12.IA-6.3	the sequence.
,	1	c 12 t 0.0	1

Chemistry (pgs. 25-41)	SC	MA.9-12.IA-6.4	Carry out a procedure to write a formula for the nth term of an arithmetic or geometric sequence when given at least four terms of the sequence.
Physics and Math (pgs. 43-63)	SC	MA.9-12.IA-6.3	Carry out a procedure to write a formula for the nth term of an arithmetic or geometric sequence when given at least four consecutive terms of the sequence.
Physics and Math (pgs. 43-63)	sc	MA.9-12.IA-6.4	Carry out a procedure to write a formula for the nth term of an arithmetic or geometric sequence when given at least four terms of the sequence.
Rocket Activity (pgs. 69-75)	SC	MA.9-12.IA-6.3	Carry out a procedure to write a formula for the nth term of an arithmetic or geometric sequence when given at least four consecutive terms of the sequence.
Rocket Activity (pgs. 69-75)	SC	MA.9-12.IA-6.4	Carry out a procedure to write a formula for the nth term of an arithmetic or geometric sequence when given at least four terms of the sequence.